



U.S. Department of  
Transportation  
Federal Aviation  
Administration

## MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved  
OMB No. 2120-0020


For FAA Use Only  
Office Identification

**INSTRUCTIONS:** Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

<b>1. Aircraft</b>	Make <b>PIPER</b>	Model <b>PA-18</b>
	Serial No. <b>18-7709117</b>	Nationality and Registration Mark <b>USA - N 83679</b>
<b>2. Owner</b>	Name (As shown on registration certificate) <b>Pro-Air West, LLC</b>	Address (As shown on registration certificate) <b>8224 Phyllis Place San Diego CA 92123</b>

**3. For FAA Use Only**  
The data identified herein complies with the applicable airworthiness requirements and is approved only for the above described aircraft, subject to conformity inspection by a person authorized in 14 CFR 43.7. Compatibility of this design change with previously approved modifications must be determined by the installer.

**2/26/2016**  
Date

  
Signature of FAA Inspector - SAN FSDO, WP 09

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
<b>AIRFRAME</b>	~~~~~(As described in item 1 above)~~~~~				X
<b>POWERPLANT</b>					
<b>PROPELLER</b>					
<b>APPLIANCE</b>	Type				
	Manufacturer				

6. Conformity Statement		
A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
<b>ROB TURNER</b> <b>7237 Werner Street</b> <b>San Diego CA 92122-2833</b>	<input checked="" type="checkbox"/> U.S. Certified Mechanic	<b>2634677 A&amp;P</b>
	<input type="checkbox"/> Foreign Certified Mechanic	
	<input type="checkbox"/> Certified Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date	Signature of Authorized Individual
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7. Approval for Return to Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
<b>BY</b>	FAA Fit Standards Inspector	Manufacturer	X	Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station		Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection	Certificate or Designation No. <b>2634677 IA</b>	Signature of Authorized Individual
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## NOTICE

*Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.*

### 8. Description of Work Accomplished

*(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)*

#### **Installation of Grove Master Cylinder and Pedal Assembly on Piper Cub N 83679 (Piper PA-18 s/n 18-7709117)**

This alteration replaces the original Piper brake actuators with new brake master cylinder/pedal assemblies P/N 95-1 (left) and 95-2 (right) produced by *Grove Aircraft Landing Gear Systems, Inc.*

Installation is accomplished by removing the original Scott Master Cylinder pedal assemblies, and mounting the Grove assemblies in the same position using the same hardware. Silicone based fluid conforming to MIL PRF 46176B or Mil 5606 fluid is used with no change to operating characteristics of the brake system. Either fluid is compatible with all operating components of the system.

Flexible brake system hoses supplied by Piper were originally automotive type, and are replaced with new stock, tested to 4000 psi and certified to have bursting pressures 5000psi and above under safety standards of 49 CFR 571.106. System pressures will be less than 650 psi.

This installation meets certification standards of CAR 3.363 and 14 CFR 23.735. All work was accomplished in accordance with standard practices of AC43.13-1B and AC43.13-2B

An operational check was performed. Performance is identical to the previously installed brake components.

Instructions for Continued Airworthiness consist of checking the brake system for condition and leaks in accordance with 14CFR Part 43 Appendix D at each annual inspection and checking the brake fluid level each 50 hours.

End.

Additional Sheets Are Attached